DESIGN AND DEVELOPMENT OF LADIES TOPS INSPIRED BY ORIGAMI FOLDS BY USING ILKAL SAREE AND KANTHA EMBROIDERY STITCHES

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Abstract: upper garment of ladies are called tops which can be worn with various, types of skirts, jeans, etc. for which many processes such as drafting, cutting, and stitching has to be followed to develop. Because of fast fashion disposal of garments fad and the creation of fabric waste at different levels of production of garments has increased. Different types of construction of garment were analyzed to find out the different process of construction which contains minimal fabric waste creation. Four different types of origami fold have been used with ilkal saree minimum cutting and Kantha embroidery is used to sew as well as for embellishment. To know the target audience adults' opinion of the developed garments showcased. According to the survey finding most of the audience liked the designs method of construction and stitching Kantha embroidery motifs used. Design and development of ladies' tops by using origami folds so as to use to reduce waste at different levels of production of the garment.

Introduction: somewhere between 100,000 and 500,000 years ago people started wearing clothes then different techniques of construction of garments is followed in which fabric waste is created at different levels of production of garments. Origami is a technique of folding paper invented by the Japanese about a thousand years ago and is rooted in china. But it is not in practice that origami folding is used in the construction of garments. Ilkal saree traditional form of feminine wear in India, which has its geographical indication [GI] tag number 76. Kantha is an embroidery work in which saree are used to stacked together to make a thin piece of cushion with the help of hand stitches. It is not in practice that origami fold is used to construct a garment out of ilkal saree by using Kantha embroidery stitches.

Objectives: to design and develop ladies tops using origami folding technique for ilkal saree and using Kantha embroidery to sew and Kantha embroidery motifs for the embellishment of tops.

Methodology: Four methods of origami folding are selected here. It is asserted from vast studies that the Japanese invented this art but its roots may be in china.

Party wear designs were finalized based on the origami folds. a study of Different styles of ladies' tops had been conducted to check the suitable style and where the origami fold can adopt The silhouette and ilkal saree chosen was a loose fitting garment. Kantha embroidery is used to sew garments with embroidery thread. Kantha embroidery motifs used to embellish of garment stands out. So, four concepts were generated. In which the Kantha embroidery stitches and motifs are goes perfectly with the after-party scenario.

Product study: selected four methods of origami folds cut the ilkal saree for the standardized body measurement of an adult lady. Ilkal saree is folded according to the selected origami fold, with a few cuts at the neckline and armhole. Joined the back part and front parts together at the shoulders .finished the neckline and armhole with the Kantha embroidery stitches and sew the side seam, with the finally finished hemline. Basic Kantha embroidery motifs selected to do surface embellishment of these tops. Origami folding is of Japanese and China art of fold paper, ilkal saree is the geographical indication of and the Kantha embroidery stitch a traditional embroidery stitch of West Bengal combined three together to develop ladies' wear.

A market study has been done to know the demand for the product and the target audience's likes and preferences and to develop garments according to that to achieve more profitable products to be able to sell the garment based on the market preferences. This also increases the demand for the product in the market and sets up a good brand image. After selecting the target audience, a two-part ethnographic survey was done firstly to know the lifestyle of the audience, what type of clothes they prefer, which method of drafting is used for that whether flat pattern technique or draping or what changes they would like to go with. Origami fold is followed in creating origami fold ladies' tops with minimal cutting and stitching. Kantha embroidery stitches are used at the shoulder and at the side seams. So the garments are created completely without using any sewing machine. Kantha embroidery stitches are used for both stitching as well as for embellishment..

Ilkal saree is selected to add the glory of Karnataka tradition and with the Kantha of Bengal to the wardrobe with new fashion and to promote the idea of reducing the fabric waste that arises out of cutting, stitching, and finishing operations of the garment by using origami fold garments.

With different forms of origami folds for ilkal saree we can get more beautiful garments and ladies can wear them with skirts, pants, jeans, leggings, etc. This can also provide employment to women at home by making the origami fold garments without using any complicated process of garment production, and without any sewing machines, to encourage them to start cottage industry for creating unique ladies tops.

Design study: origami folds: four types of folding are selected chosen dotted lines have been done to show the parts to be used Kantha embroidery stitches and Kantha embroidery motifs. Two different designs of tops and two different designs of overlapping tops have been selected as shown in the figure.

Motifs: Kantha embroidery motifs such as paisley, fish, and peacock motifs are selected and used for embellishment. Running stitch is used to render the motifs.

SAMPLE-1

Material:

- Ilkal saree
- Sewing thread
- Embroidery threads

Cutting the material:

- According to the body measurement of wearer and type of origami fold ,ilkal saree should cut 1.3 m

Developments of origami fold with ilkal saree:

- According to the origami fold ilkal saree should fold and sewing thread should use to secure the fold

Stitching process:

Shoulder stitch, neck line stitch ,arm hole and side seams should secure with kantha embroidery

COST SHEET					
DESIGN 1			FABRIC CONTENT – ILLKAL SAREE(COTTON)		
SIZE – MEDIUM			PRODUCTION CATEGORY - LADIES WEAR		
FABRIC	QTY	AT	DESIGN 1		
ILLKAL SAREE (COTTON)	1	:			
TRIMS	QTY	AT			
SEWING THREAD	1				
EMBROIDRY THREAD	2				
LABOUR	QTY	AMT			
ORIGAMY FOLD (1/2 HOUR)		50			
STITCHING (1 HOUR)		100			
EMBROIDRY (2 HOUR)		150	COST OF GARMENT		759
PACKINGS	QTY	AMT	TOTAL COST		632
PAPER COVER	1	5	PROFIT 20%		127

stitch by using embroidery threads
Surface embellishment

- Paisley motif is selected for surface embellishment by using red ,blue ,green colors of embroidery threads

SAMPLE -2

Material:

- Ilkal saree
- Sewing thread
- Embroidery threads

Cutting the material:

- According to the body measurement of wearer and type of origami fold ,ilkal saree should cut 1.3 m
- Cut the arm hole on both sides

Development of origami folds with ilkal saree:

- According to the origami fold ilkal saree should fold and sewing thread should use to secure the fold

Stitching process:

- Shoulder stitch , neck line stitch ,arm hole and side seams should secure with kantha embroidery stitch by using embroidery threads
- Give the dart at back neck

Surface embellishment

- Fish motif is selected for surface embellishment by using red, blue, green colors of embroidery thread

COST SHEET				
DESIGN 1			FABRIC CONTENT - ILLKAL SAREE(COTTON)	
SIZE – MEDIUM			PRODUCTION CATEGORY – LADIES WEAR	
FABRIC	QTY	AMT	DESIGN 2	
ILLKAL SAREE (COTTON)	1	312		
TRIMS	QTY	AMT		
SEWING THREAD	1	5		
EMBROIDRY THREAD	4	20		
LABOUR	QTY	AMT		
ORIGAMY FOLD (1/2 HOUR)		50		
STITCHING (1 HOUR)		100		
EMBROIDRY (2 HOUR)		150	COST OF GARMENT	711
PACKINGS	QTY	AMT	TOTAL COST	642
PAPER COVER	1	5	PROFIT 20%	129

SAMPLE -3

Material :

- Ilkal saree
- Sewing thread
- Embroidery threads

Cutting the material:

- According to the body measurement of wearer and type of origami fold ,ilkal saree should cut 1.3 m
- Cut the arm hole

Development of origami folds with ilkal saree:

- According to the origami fold ilkal saree should fold and sewing thread should use to secure the fold

Stitching process:

- Shoulder stitch , neck line stitch ,arm hole and side seams should secure with kantha embroidery stitch by using embroidery threads

Surface embellishment

- Paisley motif is selected for surface embellishment by using red ,blue ,green colors of embroidery threads

COST SHEET					
DESIGN 3			FABRIC CONTENT – ILLKAL SAREE(COTTON)		
SIZE – MEDIUM			PRODUCTION CATEGORY – LADIES WEAR		
FABRIC	QTY	AMT	DESIGN 3		
ILLKAL SAREE (COTTON)	1	312			
TRIMS	QTY	AMT			
SEWING THREAD	1	5			
EMBROIDRY THREAD	2	10			
LABOUR	QTY	AMT			
ORIGAMY FOLD (1/2 HOUR)		50			
STITCHING (1 HOUR)		100			
EMBROIDRY (2 1/2 HOUR)		200	COST OF GARMENT		819
PACKINGS	QTY	AMT	TOTAL COST		682
PAPER COVER	1	5	PROFIT 20%		137

SAMPLE -4

Material:

- Ilkal saree
- Sewing thread
- Embroidery threads

Cutting the material:

- According to the body measurement of wearer and type of origami fold ,ilkal saree should cut 1.3 m

Development of origami folds with ilkal saree:

- According to the origami fold ilkal saree should fold and sewing thread should use to secure the fold

Stitching process:

- Shoulder stitch , neck line stitch ,arm hole and side seams should secure with kantha embroidery stitch by using embroidery threads
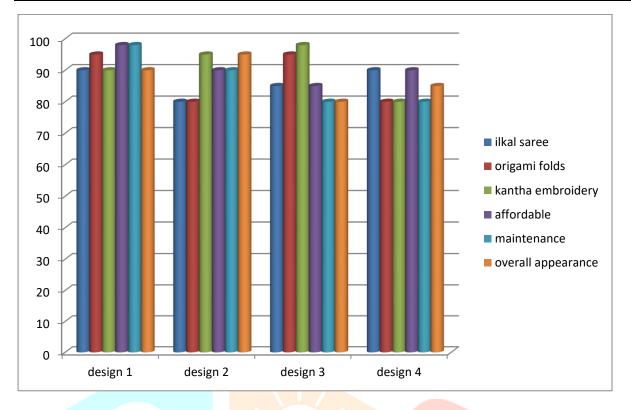
Surface embellishment

- peacock motif is selected for surface embellishment by using red ,blue ,green colors of embroidery threads

COST SHEET				
DESIGN 4			FABRIC CONTENT - ILLKAL SAREE(COTTON)	
SIZE - MEDIUM			PRODUCTION CATEGORY - LADIES WEAR	
FABRIC	QTY	AMT	DESIGN 4	
ILLKAL SAREE (COTTON)	1	312		
TRIMS	QTY	AMT		
SEWING THREAD	1	5		
EMBROIDRY THREAD	3	15		
LABOUR	QTY	AMT		
ORIGAMY FOLD (1/2 HOUR)		50		
STITCHING (1 HOUR)		100		
EMBROIDRY (2 HOUR)		150		
			COST OF GARMENT	765
PACKINGS	QTY	AMT	TOTAL COST	637

ACCEPTANCE OF DESIGN

Acceptance study was carried out on design and development of origami fold garments with ilkal saree and Kantha embroidery stitches used at shoulder and side seams through questionnaires method. And response were tabulated and graph was plotted to find out the acceptance level regarding the following measures in the given tabular column .

Sl.no	Design 1	Design 2	Design 3	Design4
Ilkal saree	90%	80%	85%	90%
Origami folds	95%	80%	95%	80%
Kantha embroidery	90%	95%	98%	80%
Affordable	98%	90%	85%	90%
Maintenance	98%	90%	80%	80%
Overall appearance	90%	95%	80%	85%

According to the survey made most of the people liked the concept of origami fold garments. Most of the audience liked the concept of using kantha embroidry stitch to finish neckline, arrmhole and side seams and also appriciated kantha embroidry motifs used to enhance the garment.

CONCLUSION

The main motive of this proect was to reduce fabric waste that arise in different stages of garment construction and to introduce origami folded garments into practice andlso the idea ofreducing the use machines (sewing machines) by using traditional embroidry stitches to finish the garment waas sucessful.

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